

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A display device capable of displaying a text containing a predetermined kind of character, and a registered image inserted in the text simultaneously, comprising:

a first storage portion for storing beforehand a character code for specifying each of said predetermined kind of character, and character shape data corresponding to said character code in a correlated manner;

a second storage portion for storing an image code for specifying said registered image and registered image data corresponding to said image code in a correlated manner according to registration processing by a user, ~~said registered image being generated by a user;~~

a display output portion for outputting said predetermined kind of character and said registered image; and

a display control portion for causing said display output portion to output corresponding said predetermined kind of character and said registered image both belonging to an identical sentence based on display data containing a series of said character code, text attribute data, and said image code, said text attribute data containing color attribute data indicating at least a fore color of a corresponding predetermined kind of character, wherein

said display control portion determines whether or not a size of characters constituting the text where the registered image is inserted and a size of the registered image are substantially the same,

when the size of characters constituting the text where the registered image is inserted and the size of the registered image are not substantially the same, said display control portion makes the size of the characters and the size of the registered image substantially the same by scaling up/down the size of the registered image based on the text attribute data,

said display control portion converts a color of said registered image according to said color attribute data, and

said display control portion causes said display output portion to display a text containing characters and the registered image scaled to substantially the same size having image

transforming means for transforming said registered image to be displayed according to said text attribute data, so that said registered image is sandwiched between two parts of said text of said predetermined kind of character in a line of said identical sentence, wherein

——said text attribute data contains size attribute data indicating a character size of said text, and

——said image transforming means scales up/down said registered image to adjust a height of said registered image to a height of said text, by referring only to the height of said text, in accordance with said size attribute data, so that the height of said registered image matches the height of said text sandwiching said registered image when displaying a horizontal writing, and to adjust a width of said registered image to a width of said text, by referring only to the width of said text, in accordance with said size attribute data, so that the width of said registered image matches the width of said text sandwiching said registered image when displaying a vertical writing, the height and widths of said registered image inserted in the text being adjusted to the height and width of said text before the registered image is displayed.

2. (Canceled)

3. (Canceled)

4. (Currently amended) The display device according to ~~claim 3~~claim 1, wherein when said registered image is a gray image, said ~~image transforming means~~display control portion converts each pixel of said registered image into a color made by mixing the fore color and a back color at a ratio according to a pixel value of said predetermined kind of character.

5. (Currently amended) The display device according to claim 1, wherein said text attribute data contains decoration attribute data indicating a type of a decoration applied to a corresponding predetermined kind of character, and said ~~image transforming means~~display control portion decorates said registered image according to said decoration attribute data.

6. (Currently Amended) A display method for displaying a text containing a predetermined kind of character, and a registered image inserted in the text simultaneously, comprising:

storing an image code for specifying said registered image and registered image data corresponding to said image code in a correlated manner according to registration processing by a user, said registered image being ~~generated by a user and~~ stored in a storage portion different from a storage portion for storing the predetermined kind of character;

with respect to display data containing a series of a character code, text attribute data, and said image code, said text attribute data containing color attribute data indicating at least a fore color of a corresponding predetermined kind of character, transforming said registered image to be displayed according to said text attribute data; and

displaying said predetermined kind of character and said registered image simultaneously based on said transformed registered image, so that said registered image is sandwiched between two parts of said text of said predetermined kind of character in a line of said identical sentence, by

determining whether or not a size of characters constituting the text where the registered image is inserted and a size of the registered image are substantially the same,

when the size of the characters constituting the text where the registered image is inserted and the size of the registered image are not substantially the same, said display control portion makes the size of the characters and the size of the registered image substantially the same by scaling up/down the size of the registered image based on the text attribute data,

converting a color of said registered image according to said color attribute data, and causing said display output portion to display a text containing characters scaled to substantially the same size as the registered image~~wherein~~

~~said text attribute data contains size attribute data indicating a character size of said text,~~
and

~~—said transforming step includes scaling up/down said registered image to adjust a height of said registered image to a height of said text, by referring only to the height of said text, in~~

accordance with said size attribute data, so that the height of said registered image matches said height of said text sandwiching said registered image when displaying a horizontal writing, and to adjust a width of said registered image to a width of said text, by referring only to the width of said text, so that the width of said registered image matches the width of said text sandwiching said registered image when displaying a vertical writing, the height and widths of said registered image inserted in the text being adjusted to the height and width of said text before the registered image is displayed.

7. (Currently Amended) A viewer program for displaying a text containing a predetermined kind of character, and a registered image inserted in the text simultaneously, causing a computer to perform the steps of:

storing an image code for specifying said registered image and registered image data corresponding to said image code in a correlated manner according to registration processing by a user, said registered image being ~~generated by a user and~~ stored in a storage portion different from a storage portion for storing the predetermined kind of character;

with respect to display data containing a series of a character code, text attribute data, and said image code, said text attribute data containing color attribute data indicating at least a fore color of a corresponding predetermined kind of character, transforming said registered image to be displayed according to said text attribute data; and

displaying said predetermined kind of character and said registered image simultaneously based on said transformed registered image, so that said registered image is sandwiched between two parts of said text of said predetermined kind of character in a line of said identical sentence, by

determining whether or not a size of characters constituting the text where the registered image is inserted and a size of the registered image are substantially the same,

when the size of the characters constituting the text where the registered image is inserted and the size of the registered image are not substantially the same, said display control portion makes the size of the characters and the size of the registered image substantially the same by scaling up/down the size of the registered image based on the text attribute data,

converting a color of said registered image according to said color attribute data, and
causing said display output portion to display a text containing characters scaled to
substantially the same size as the registered image
wherein

said text attribute data contains size attribute data indicating a character size of said text,
and

~~said transforming step includes scaling up/down said registered image to adjust a height~~
~~of said registered image to a height of said text, by referring only to the height of said text, in~~
~~accordance with said size attribute data, so that the height of said registered image matches said~~
~~height of said text sandwiching said registered image when displaying a horizontal writing, and~~
~~to adjust a width of said registered image to a width of said text, by referring only to the width of~~
~~said text, in accordance with said size attribute data, so that the width of said registered image~~
~~matches the width of said text sandwiching said registered image when displaying a vertical~~
~~writing, the height and widths of said registered image inserted in the text being adjusted to the~~
~~height and width of said text before the registered image is displayed.~~

8. (Currently Amended) A computer-readable recording medium having a viewer program recorded thereon for displaying a text containing a predetermined kind of character, and a registered image inserted in the text simultaneously, said viewer program causing a computer to perform the steps of:

storing an image code for specifying said registered image and registered image data corresponding to said image code in a correlated manner according to registration processing by a user, said registered image being ~~generated by a user and~~ stored in a storage portion different from a storage portion for storing the predetermined kind of character;

with respect to display data containing a series of a character code, text attribute data, and said image code, said text attribute data containing color attribute data indicating at least a fore color of a corresponding predetermined kind of character, transforming said registered image to be displayed according to said text attribute data; and

displaying said predetermined kind of character and said registered image simultaneously based on said transformed registered image, so that said registered image is sandwiched between two parts of said text of said predetermined kind of character in a line of said identical sentence, by

determining whether or not a size of characters constituting the text where the registered image is inserted and a size of the registered image are substantially the same,

when the size of the characters constituting the text where the registered image is inserted and the size of the registered image are not substantially the same, said display control portion makes the size of the characters and the size of the registered image substantially the same by scaling up/down the size of the registered image based on the text attribute data,

converting a color of said registered image according to said color attribute data, and causing said display output portion to display a text containing characters scaled to substantially the same size as the registered image wherein

~~—said text attribute data contains size attribute data indicating a character size of said text, and~~

~~—said transforming step includes scaling up/down said registered image to adjust a height of said registered image to a height of said text, by referring only to the height of said text, in accordance with said size attribute data, so that the height of said registered image matches said height of said text sandwiching said registered image displaying when displaying a horizontal writing, and to adjust a width of said registered image to a width of said text, by referring only to the width of said text, in accordance with said size attribute data, so that the width of said registered image matches the width of said text sandwiching said registered image when displaying a vertical writing, the height and widths of said registered image inserted in the text being adjusted to the height and width of said text before the registered image is displayed.~~

9. (Currently amended) The display device according to claim 5, wherein
said ~~image transforming means~~display control portion includes image decoration means for decorating said registered image to provide continuous decoration to both said registered

image and neighboring predetermined kind of characters adjacent to said registered image according to said decoration attribute data.

10. (Previously Presented) The display device according to claim 9, wherein said image decoration means decorates said registered image, such that both said registered image and said neighboring predetermined kind of characters show the said fore and back colors continuously.

11. (Previously Presented) The display device according to claim 9, wherein said image decoration means decorates said registered image to draw a continuous underline below both said registered image and said neighboring predetermined kind of characters.

12. (Previously Presented) The display device according to claim 9, wherein said image decoration means decorates said registered image to draw a continuous cancel line on both said registered image and said neighboring predetermined kind of characters.

13. (Previously Presented) The display device according to claim 1, wherein the first storage portion is a ROM, and the second storage portion is a RAM.

14. (Previously Presented) The display device according to claim 1, wherein the text containing the predetermined kind of character and the registered image is used in a Hyper Text Markup Language document.

15. (Previously Presented) The display method according to claim 6, wherein the text containing the predetermined kind of character and the registered image is used in a Hyper Text Markup Language document.

16. (Previously Presented) The viewer program according to claim 7, wherein the text containing the predetermined kind of character and the registered image is used in a Hyper Text Markup Language document.

17. (Previously Presented) The computer-readable recording medium according to claim 8 wherein the text containing the predetermined kind of character and the registered image is used in a Hyper Text Markup Language document.

18. (Canceled)

19. (Currently Amended) A method of displaying a text containing a predetermined kind of character, and a registered image inserted in the text simultaneously, comprising:

storing beforehand a character code for specifying each of said predetermined kind of character, and character shape data corresponding to said character code in a correlated manner;

storing an image code for specifying said registered image and registered image data corresponding to said image code in a correlated manner according to registration processing by a user, said registered image being generated by a user;

outputting said predetermined kind of character and said registered image;

causing a display output portion to output corresponding said predetermined kind of character and said registered image both belonging to an identical sentence based on display data containing a series of said character code, text attribute data, and said image code, said text attribute data containing color attribute data indicating at least a fore color of a corresponding predetermined kind of character, by

determining whether or not a size of characters constituting the text where the registered image is inserted and a size of the registered image are substantially the same,

when the size of the characters constituting the text where the registered image is inserted and the size of the registered image are not substantially the same, said display control portion makes the size of the characters and the size of the registered image substantially the same by scaling up/down the size of the registered image based on the text attribute data,

converting a color of said registered image according to said color attribute data, and
causing said display output portion to display a text containing characters scaled to
substantially the same size as the registered imagesaid-causing step including transforming said
registered image to be displayed according to said text attribute data, so that said registered
image is sandwiched between two parts of said predetermined kind of character in a line of said
identical sentence, said text attribute data containing size attribute data indicating a character size
of said text, and

—sealing up/down said registered image to adjust a size of said registered image to a size of
said text in accordance only with a dimension of said character in a the direction orthogonal to
the arrangement of the texts, in accordance with said size attribute data, so that a height of said
registered image matches a height of said text sandwiching said registered image when
displaying a horizontal writing, and a width of said registered image matches a width of said text
sandwiching said registered image when displaying a vertical writing, the size of said registered
image inserted in the text being adjusted to the size of said text before the registered image is
displayed.